

Amazon FSx for Lustre Pricing

AWS Pricing Calculator

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With Amazon FSx for Lustre, you pay only for the resources you use and there are no minimum fees or set-up charges. While pricing is quoted on a monthly basis, your usage is prorated by the second, and you are billed for your average usage over a month.

SSD or HDD (provisioned) storage class

- SSD or HDD storage:** You pay for the average amount of storage provisioned for your file systems per month, measured in GB-months, as shown in the pricing examples.

Intelligent-Tiering (elastic) storage class

- Intelligent-Tiering storage:** You pay for the average amount of storage consumed per access tier—Frequent Access tier, Infrequent Access tier, and Archive Instant Access tier—for your file systems per month, measured in GB-months.
- Monitoring and automation:** You pay for the average amount of all storage consumed in the Intelligent-Tiering access tier per month, measured in GB-months.
- SSD read cache (optional):** You pay for the average amount of cache provisioned for your file systems per month, measured in GB-months.
- Data access:** You pay for the average number of read and write request operations to the Intelligent-Tiering storage tiers.
- Throughput capacity:** You pay for the average throughput capacity you've provisioned for your file systems per month, measured in MBps-months.

Metadata IOPS

- With SSD or HDD storage class, a default number of metadata IOPS are included with each file system based on the storage capacity provisioned. You can optionally provision a higher level of metadata IOPS, and you pay for the average IOPS provisioned above the default level included with storage capacity, measured in IOPS-months.
- With the Intelligent-Tiering storage class, you pay for average IOPS provisioned, measured in IOPS-months.

Backups

- With backups, you pay for the amount of backup data stored, measured in GB-months. Backups are incremental, which means only the changes after your most recent backup are saved, so you save on storage costs by not duplicating data.

Data transfer

- Data transferred "in" to and "out" from Amazon FSx across Availability Zones or VPC peering connections in the same AWS Region is charged at the rate for data transfer within the same Region. Data transferred "out" from Amazon FSx to another Region (including for copying backups across Regions) is charged at the inter-Region rate for the specific inter-Region transfer.

Pricing

SSD file systems	Intelligent-Tiering file systems	Data transfer	Previous-generation file systems
Region:			
Europe (London)			
Persistent file systems	Effective cost with data compression enabled*		Pricing
Storage and throughput			
125 MB/s/TiB	\$0.092 per GB-month		\$0.184 per GB-month
250 MB/s/TiB	\$0.140 per GB-month		\$0.279 per GB-month
500 MB/s/TiB	\$0.234 per GB-month		\$0.467 per GB-month
1,000 MB/s/TiB	\$0.422 per GB-month		\$0.844 per GB-month
Backup Storage	\$0.027 per GB-month		\$0.053 per GB-month
Provisioned metadata IOPS (optional)	n/a		\$0.066 per IOPS-month
Scratch file systems	Effective cost with data compression enabled*		Pricing
200 MB/s/TiB	\$0.081 per GB-month		\$0.162 per GB-month
*Assuming typical savings of 50%			

Pricing example 1

Assume you want to provision a scratch file system in the US East (N. Virginia) Region with 4,800 GB of storage capacity, run your file system for an 8-hour workload every day, and then delete it. Assume you do this for 30 days (a month).

Storage:
\$0.140/GB-month / 30 / 24 = \$0.000194/GB-hour
4800 GB * \$0.000194/GB-hour * 8 hours * 30 days = \$224/mo

Total monthly charge: \$224

Pricing example 2

Assume you want to store 2,000 GB of data on a file system with at least 125 MB/s of throughput capacity and 3000 metadata IOPS in the US East (N. Virginia) Region. Based on a typical data compression savings of 50%, you provision a persistent file system with 1,200 GB of storage capacity and per-unit storage throughput of 125 MB/s/TiB. A file system with 1,200 GB of storage capacity includes 1,500 metadata IOPS, so you are billed for 1,500 additional metadata IOPS. For additional data protection, assume you have 1,200 GB of backup storage during the month.

Storage: 1,200 GB * \$0.145/GB-month = \$174/mo
Metadata IOPS: 1,500 IOPS * \$0.055/IOPS-month = \$82.50/mo
Backup: 1,200 GB * \$0.050/GB-month = \$60/mo

Total monthly charge: \$316.50

Pricing example 3

Assume you want to store 100 TB of data on a persistent file system with Intelligent-Tiering storage class in the US East (N. Virginia) Region. At the beginning of a 30-day month, assume your file system stores 20% of data accessed within the last 30 days in Frequent Access tier, 20% of data not accessed for 30–60 days in the Infrequent Access tier, and the remaining 60% of data not accessed for 90 consecutive days in the Archive Instant Access tier. Based on a typical data compression savings of 50%, you will store 10 TB in Frequent Access tier, 10 TB in Infrequent Access tier and 30 TB in Archive Instant Access tier. On the 16th day of the month, FSx Intelligent-Tiering moves 50% of your data stored on the Frequent Access tier to the Infrequent Access tier and 25% of your data from Infrequent Access tier to Archive Instant Access tier.

Assume you provision 4,000 MB/s of throughput capacity, 6,000 metadata IOPS, and 1,200 GB of SSD read cache storage during the month. Your application performs 100 uncached read requests and 100 write requests per second.

Frequent Access tier storage:
\$0.0230/GB-month / 30 days / 24 hours= \$0.00003194/GB-hour
10 TB of Frequent Access tier for 15 days * \$0.00003194/GB-hour * 15 days * 24 hours/day = \$115/mo
5 TB of Frequent Access tier (after 50% is tiered to Infrequent Access tier) for 15 days * \$0.00003194/GB-hour * 15 days * 24 hours/day = \$57.50/mo

Infrequent Access tier storage:
\$0.0125/GB-month / 30 days / 24 hours= \$0.00001736/GB-hour
10 TB of Infrequent Access tier for 15 days * \$0.00001736/GB-hour * 15 days * 24 hours/day = \$62.50/mo
5 TB of data from Frequent Access Tier to Infrequent Access tier for 15 days * \$0.00001736/GB-hour * 15 days * 24 hours/day = \$31.25/mo
7.5 TB of Infrequent Access tier (after 25% is tiered to Archive Instant Access Tier) for 15 days * \$0.00001736/GB-hour * 15 days * 24 hours/day = \$46.875/mo

Archive Instant Access tier storage:
\$0.004/GB-month / 30 days / 24 hours= \$0.00000556/GB-hour
30 TB of Archive Instant Access tier storage for 15 days * \$0.00000556/GB-hour * 15 days * 24 hours/day = \$60.00/mo
2.5 TB of data from Infrequent Access Tier to Archive Instant Access tier for 15 days * \$0.00000556/GB-hour * 15 days * 24 hours/day = \$5.00/mo

Intelligent-Tiering read and write requests:
100 read requests per second * 86,400 seconds per day * 30 days = 259,200,000 requests/mo
Intelligent-Tiering read requests: 259,200,000 requests * \$0.0004 per 1,000 requests = \$103.68/mo
100 write requests per second * 86,400 seconds per day * 30 days = 259,200,000 requests/mo
Intelligent-Tiering write requests: 259,200,000 requests * \$0.0050 per 1,000 requests = \$1296.00/mo

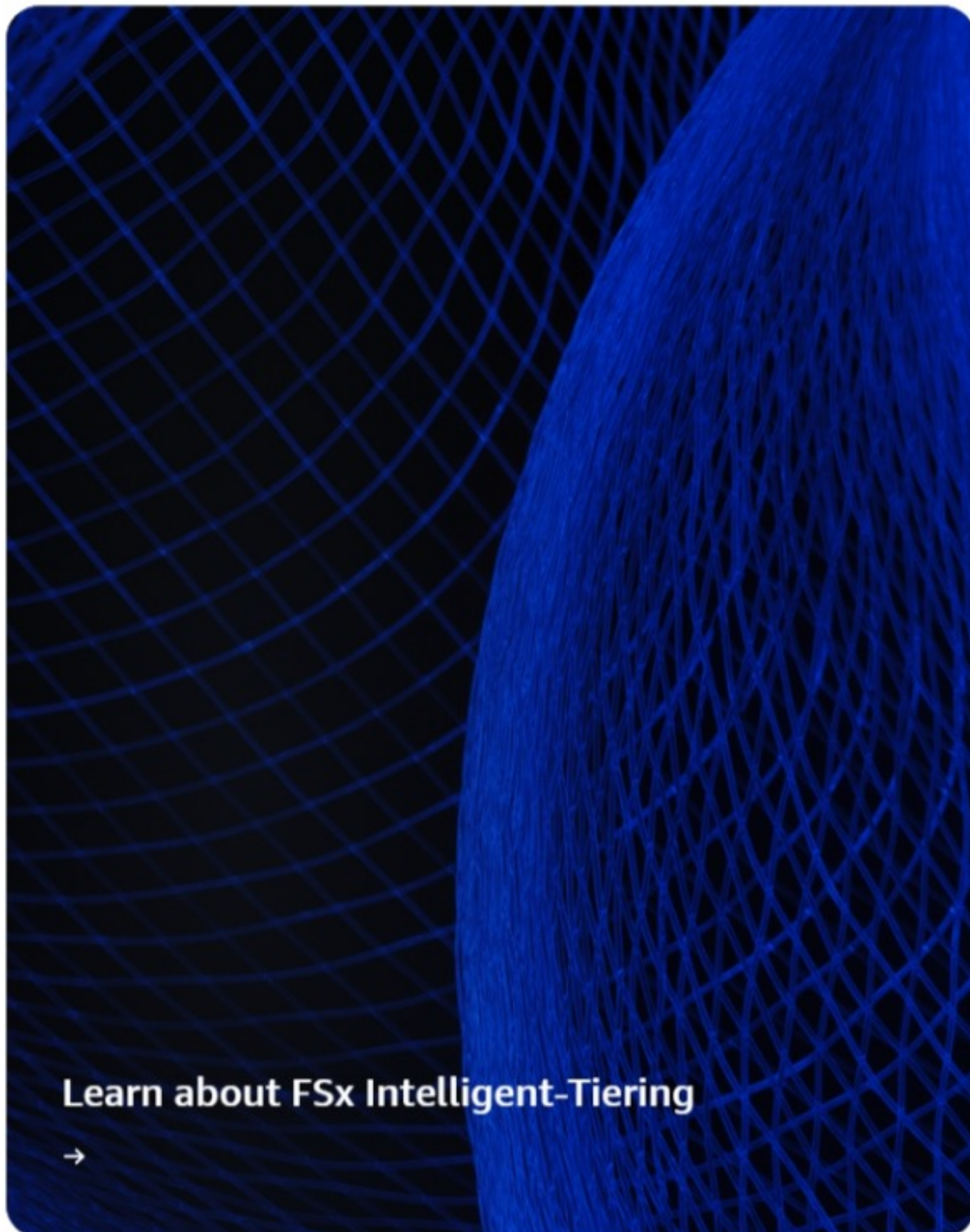
Monitoring and automation: 50 TB average storage consumed * \$0.0006/GB-month = \$30.00/mo

Throughput capacity: 4,000 MBps-month * \$0.52/MBps-month = \$2080.0/mo
Metadata IOPS: 6,000 IOPS * \$0.055/IOPS-month = \$330/mo
SSD read cache: 1,200 GB SSD read cache * \$0.09/GB-month = \$108/mo

Additional pricing resources

AWS Pricing Calculator Easily calculate your monthly costs with AWS	Get pricing assistance Contact AWS specialists to get a personalized quote
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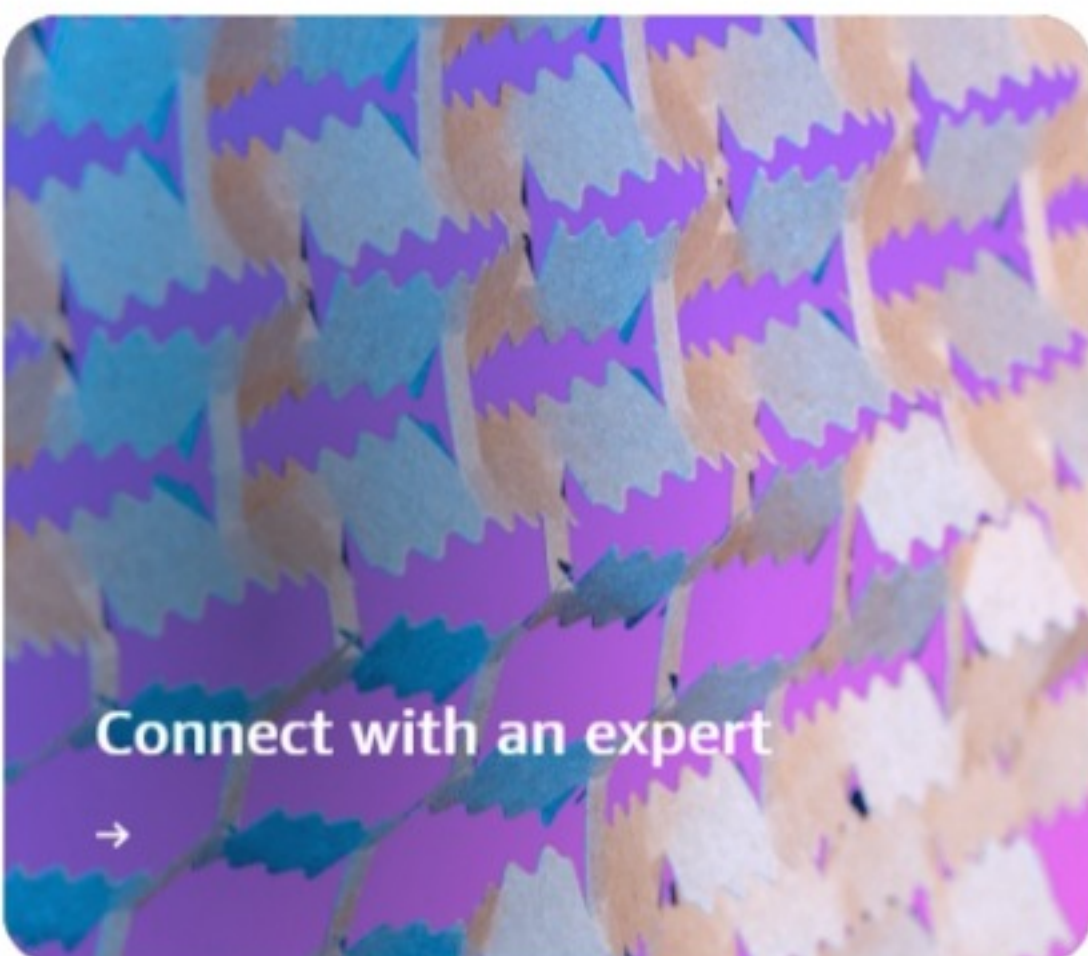
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Learn about FSx Intelligent-Tiering



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